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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,834	05/04/2001	Sundar Raman	01-298	2255

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McDonnell Boëhnen Hulbert & Berghoff
32nd Floor
300 S. Wacker Drive
Chicago, IL 60606

EXAMINER

HOOSAIN, ALLAN

ART UNIT	PAPER NUMBER
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2645

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/849,834

Applicant(s)

RAMAN ET AL.

Examiner

Allan Hoosain

Art Unit

2645

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Objections

1. Claims 1,5,11,12,13,14,17,19,20 is objected to because of the following informalities:
They recite one or more of the acronyms AAA, HAAA, PDSN, de-RRQ and de-RRP in the limitations. These acronyms should be spelled out at least once in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claim 1 recites the limitation "the PDSN" in line 8. There is insufficient antecedent basis for this limitation in the claim.
4. Claim 20 recites the limitation "the de-RRQ" in line 11. There is insufficient antecedent basis for this limitation in the claim.
5. Claim 12 recites the limitations "the HAAA" and "the PDSN". There is insufficient antecedent basis for this limitation in the claim.
6. Claim 13 recites the limitation "the PDSN". There is insufficient antecedent basis for this limitation in the claim.
7. Claims 17-18 recites the limitation "the HAAA". There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2645

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by **Forslow** (US 6,608,832).

As to Claims 1,11-13, with respect to Figures 9-12, **Forslow** teaches a method of transmitting information between a mobile node, 102, and a home agent, 130, of the mobile node, the mobile node having an associated home AAA server, 116, the method comprising:

determining the address of the HAAA (Col. 15, lines 23-32, Col. 18, lines 64-67);

contacting the HAAA and, responsively, receiving location information indicating a methodology of determining the address of the home agent of the mobile node (Col. 15, lines 13-22, Col. 19, lines 1-10);

determining the address of the home agent using information received from the HAAA and a SS7 network (the PDSN) (Col. 15, lines 23-32); and

routing the information from the mobile node to the home agent having the address (Col. 15, lines 15, lines 23-32 and Col. 19, lines 14-30,45-64).

As to Claims 2,16, **Forslow** teaches the method of claim 1 farther comprising:

Art Unit: 2645

moving the mobile node to a second network (Figure 9, labels CS and PS);

re-determining the address of the HAAA (Figure 9, label 118 and Col. 17, line 62 through Col. 18, line 5);

re-contacting the HAAA and, responsively, receiving information indicating a methodology to determine the address of the home agent of the mobile node (Col. 19, lines 14-20);

re-determining the address of the home agent (Col. 19, lines 14-20); and

re-routing information to the home agent having the address (Col. 19, lines 45-64).

As to Claim 3, **Forslow** teaches the method of claim 1 wherein the message involves using a static address (Col. 18, line 67 through Col. 19, line 1).

As to Claim 4, **Forslow** teaches the method of claim 1 wherein the methodology involves obtaining an address from an address pool (Col. 18, lines 64-67).

As to Claim 5, with respect to Figures 9-12, **Forslow** teaches a system comprising:

a mobile node (Figure 9, label 102);

a wireless network coupled to the mobile node (Figure 9, labels 108);

a PDSN coupled to the wireless network (Figure 9, label 114);

a proxy server, 116, coupled to the PDSN, the proxy server including configuration information (a table), the table including information indicating the MSid (home address of the mobile node) (Col. 18, lines 55-67);

Art Unit: 2645

a HAAA, 132, coupled to the proxy server (Col. 18, lines 64-67);

a home agent, 120, coupled to the PDSN (Col. 15, lines 23-25 and Col. 19, lines 49-57);

wherein the mobile node sends a access-request message to the wireless network, and the wireless network sends the access-request message to the PDSN (Col. 18, lines 55-63);

wherein the PDSN forwards the access-request to the proxy server (Col. 18, lines 55-63);

wherein the proxy server determines the address of the HAAA (Col. 18, lines 64-67);

wherein the HAAA receives the access-request message and, responsively, sends information representative of an IP address assignment to the proxy server (Col. 15, lines 23-32),

and

the proxy server determines the address of the home agent using the information and the table (Col. 19, lines 49-57); and

wherein a data message is thereafter routed to the home agent having the address (Col. 19, lines 51-53,54-57).

As to Claim 6, **Forslow** teaches the system of claim 5 wherein the address of the home agent is determined statically (Col. 18, line 67 through Col. 19, line 1).

As to Claim 7, **Forslow** teaches the system of claim 5 wherein the address of the home agent is determined dynamically (Col. 19, lines 64-67).

As to Claim 8, **Forslow** teaches the system of claim 5 wherein the address is determined from an address pool (Col. 18, lines 64-67).

Art Unit: 2645

As to Claim 9, **Forslow** teaches the system of claim 5 wherein the network includes a PDSN.

As to Claim 10, **Forslow** teaches the system of claim 5 wherein said mobile subsequently moves to a second network and the address of the HAAA and HA are re-computed.

As to Claims 14-15,17-19, **Forslow** teaches a method for tunneling data to a home agent of a mobile node from the mobile node, the home agent having an HAAA server, the mobile node coupled to a first network, the method comprising:

- requesting a look-up methodology from the HAAA server of the home agent;

- responsively, receiving a look-up methodology from the HAAA server;

- determining the address of the home agent using a mapping table and the look-up methodology, the mapping table including a plurality of home agent addresses (Col. 15, lines 15, lines 23-32 and Col. 19, lines 14-30,45-64); and

- tunneling data to the home agent using the address of the home agent (Col. 14, lines 51-62).

As to Claim 20, with respect to Figures 6-9, **Forslow** teaches a system for reclaiming and releasing session resources on a PDSN, proxy server and home agent during packet data serving area traversal, the system comprising:

Art Unit: 2645

means for requesting a reclamation of resources on the PDSN by the proxy server, upon detection of traversal of the mobile node from circuit switched application (a first coverage area) to a packet switched application (second coverage area) (Col. 17, lines 45-55);

means for, responsively, receiving a resource management from the PDSN (Col. 17, lines 50-55);

means for acknowledging the resource management request with a resource-free-response by the proxy server to the PDSN (Col. 17, lines 50-55);

means for releasing resources allocated to a PDSN session from the home agent, by the PDSN (Col. 17, lines 46-48); and

means for responding to a bearer release message (the de-RRQ messaging) triggered by resource management, with a packet switched bearer (de-RRP message) (Col. 17, lines 46-65).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sladek et al. (US 6,622,016) teach providing services between networks for mobile subscribers.

11. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231
or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 306-0377 (for customer service assistance)

Art Unit: 2645

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Allan Hoosain** whose telephone number is (703) 305-4012. The examiner can normally be reached on Monday to Friday from 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Fan Tsang**, can be reached on (703) 305-4895.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Allan Hoosain

Allan Hoosain

Primary Examiner

3/8/04